

Silicon Mountain helps organizations tackle their deep-rooted technology problems. We specialize in digital transformation, custom tool development, and targeted tool deployment.

# Capabilities

## DevSecOps Services

### Solution Architecture & Implementation

- Stack architecture
- Microservice swarms
- Hardware prototyping
- Enterprise integration
- Server operations and design

### Custom Software Engineering

- Enterprise web-based applications
- Alexa skill generation
- Progressive web apps
- Mobile phone apps
- Workflow engines
- Asynchronous applications

### API Implementations & Integrations

- Object-oriented programming
- Lucene and Solr style search indexing on databases
- Relational database structures
- Graphing database structures

## Artificial Intelligence, Machine Learning, Data Science

### Data Science

- Strategy planning
- Infrastructure setup
- Model development
- Feature engineering
- Machine learning
- Deep learning
- Natural language processing
- Explainable AI

### Data Analytics

- Data collection and cleaning
- Big data processing
- Data exploration
- Data mining
- Statistical analysis and modeling
- Data visualization

### Business Intelligence

- Data integration
- ETL process pipelining
- Data warehousing and management
- Reporting and dashboards
- Data quality monitoring
- Cloud-based business intelligence solution implementation

## Process Improvement/Implementation and Change Management

### Discovery

- EcoSystem Exploration
- Design sprints

### Process

- Process analysis and refinement
- Lean process management

### Workflow

- Workflow automation with Jira
- Jira-certified administrators and developers

Capabilities continue on the next page

## Curriculum Design and Training

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### Onsite Training

Onsite customer tech literacy group training courses

Onsite customer application training courses

### Training Library

Open source library generation on Git and NPM

Role-specific user guides for software

Learning modules

### Virtual Training

Ask me anything sessions

Product-specific workshops

Weekly curriculums with user acceptance testing follow-up

## Additional Information

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### LANGUAGES

**Programming languages:** Java, C#, PHP, Python, React, Angular, Node JS, Spring

**Mobile languages:** Flutter and Android

**Scripting languages:** Groovy Scripting, Vanilla Javascript, JQuery, Gradle, Bash

**Markup languages:** CSS, HTML5, JSTL, FreeMarker

### ABOUT US

**CAGE:** 60CV6

**UEI:** L3J5PPW3DNH9

### NAICS CODES

541511 - Custom Computer Programming Services

541512 - Computer Systems Design Services

541519 - Other Computer Related Services

541611 - Administrative Management and General Management Consulting Services

541618 - Other Management Services

541715 - Research and Development in the Physical, Engineering, and Life Sciences (Except Nanotechnology and Biotechnology)

541990 - All Other Professional, Scientific, and Technical Services

611420- Computer Training